

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	731	Franz-Keldysh (franz adj keldysh)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:00
L2	1560762	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:01
L3	2449228	electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:01
L4	478	1 and 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:01
L5	426460	bias\$3 near5 (electrode signal volt \$3 current charge circuit\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:04
L6	315	4 and 5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:05
L7	762046	"group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:05

L8	50	6 and 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:05
L9	24619	((peak-to-peak) (peak near5 peak) pk-pk ((minimum "min" minima lowest) near5 ("max" maximum maxima highest)) extrema) near5 amplitude	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:09
L10	1	8 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:10
L11	18726	((359/245,315,247,251- 252,254,108,237-238,278-279,290- 292,298,300-302) or (385/1- 3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11
L12	22	split\$4 same combiner same electrode same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) same bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L13	9	L11 and L12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L14	2367	split\$4 same combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L15	2147	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L16	2844	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

L17	1	(L14 and L15 and L16) not L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L18	4521	combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L19	2	(L15 and L16 and L18) not (L13 L17)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L20	1560762	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L21	13	L12 not (L19 L13 L17)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L22	6	((("5524076") or ("5778113") or ("5991471")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11
L23	2	("5267073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11
L24	699	Franz-Keldysh	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L25	461	L20 and L24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

L26	159	L11 and L25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L27	1	L15 and L16 and L26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L28	20	(L19 L13 L17 L21 L22 L23) and (phase adj shift\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L29	731	Franz-Keldysh (franz adj keldysh)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L30	3	L28 and L29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L31	5136	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) near20 (silicon near5 substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L32	18726	((359/245,315,247,251- 252,254,108,237-238,278-279,290- 292,298,300-302) or (385/1- 3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11
L33	22	split\$4 same combiner same electrode same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) same bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L34	9	L32 and L33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

L35	2367	split\$4 same combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L36	2147	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L37	2844	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L38	1	(L35 and L36 and L37) not L34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L39	4521	combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L40	2	(L36 and L37 and L39) not (L34 L38)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L41	13	L33 not (L40 L34 L38)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L42	6	((("5524076") or ("5778113") or ("5991471")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11
L43	2	("5267073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11

L44	1	(L40 L34 L38 L41 L42 L43) and L31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L45	853	("CW" continuous-wave (continuous adj wave)) near20 electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L46	1560762	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L47	145	L45 and L46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L48	28795	third adj electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L49	9	L47 and L48	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L50	2560	(electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L51	168	L46 same L50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L52	15	L32 and L51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

L53	6	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) same ((electro-optic \$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) and (split\$4) and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L54	6	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) same ((electro-optic \$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) same electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L55	5	L54 not L53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L56	22	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) and split\$4 and combiner and electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L57	17	L56 not (L53 L52)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L58	5	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and electrode) and (transmit\$5 adj station) and ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L59	34044	(electro-optic\$3 (electro adj optic\$3) electrooptic\$3) near10 (convert\$4 electric\$3 signal wavelength wave-length (wave adj length))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

L60	18726	((359/245,315,247,251-252,254,108,237-238,278-279,290-292,298,300-302) or (385/1-3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/26 11:11
L61	2147	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L62	2844	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L63	1300	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L64	5	L63 and L61 and L62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L65	3	(((((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) same split\$4 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

		combiner) and electrode\$1				
L66	67	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) and split\$4 and combiner) and electrode\$1 and (bias\$3 adj (signal voltage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L67	28	L60 and L66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L68	22	(((((modulat\$5 ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide))) near5 (branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L69	6	L59 and (L68 L67 L65 L64)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11
L70	49	8 not (L58 L13 L17 L19 L21 L27 L28 L30 L44 L49 L52 L55 L57 L69)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:11

L71	2260	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near20 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:17
L72	10	70 and 71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:18
L87	266	71 and 5 and 3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:31
L88	262	87 not (L58 L13 L17 L19 L21 L27 L28 L30 L44 L49 L52 L55 L57 L69)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:31
L89	0	9 and 88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:31
L90	86	60 and 88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/26 11:31
S1	17794	((359/245,315,247,251-252,254,108,237-238,278-279,290-292,298,300-302) or (385/1-3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/05 08:07

S2	189	split\$4 same combiner same electrode same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:10
S3	18	split\$4 same combiner same electrode same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path))) same bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:10
S4	8	S1 and S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:11
S5	2212	split\$4 same combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:16
S6	1937	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:17
S7	2607	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:17
S8	0	(S5 and S6 and S7 and S1) not S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:17
S9	1	(S5 and S6 and S7) not S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:17
S10	4239	combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:18

S11	2	(S6 and S7 and S10) not (S4 S9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:18
S12	1397207	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:20
S13	121	(S6 and S7 and S12) not (S11 S4 S9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:20
S14	40	S13 and S1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:20
S15	23106	combiner and split\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:20
S16	0	S14 and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:21
S17	10	S3 not (S11 S4 S9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:21
S18	6	((("5524076") or ("5778113") or ("5991471")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/05 08:28
S19	2	("5267073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/05 08:38

S20	658	Franz-Keldysh	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:40
S21	431	S12 and S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:40
S22	143	S1 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:40
S23	1	S6 and S7 and S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:41
S24	19	(S11 S4 S9 S17 S18 S19) and (phase adj shift\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:43
S25	689	Franz-Keldysh (franz adj keldysh)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:44
S26	3	S24 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 08:44
S27	4843	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) near20 (silicon near5 substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:03
S28	17794	((359/245,315,247,251- 252,254,108,237-238,278-279,290- 292,298,300-302) or (385/1- 3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/05 14:04

S29	18	split\$4 same combiner same electrode same ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path))) same bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S30	8	S28 and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S31	2212	split\$4 same combiner same ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S32	1937	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S33	2607	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S34	1	(S31 and S32 and S33) not S30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S35	4239	combiner same ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S36	2	(S32 and S33 and S35) not (S30 S34)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S37	10	S29 not (S36 S30 S34)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04

S38	6	((("5524076") or ("5778113") or ("5991471")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/05 14:04
S39	2	("5267073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/05 14:04
S40	1	(S36 S30 S34 S37 S38 S39) and S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:04
S41	795	("CW" continuous-wave (continuous adj wave)) near20 electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:07
S42	1397207	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:08
S43	135	S41 and S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:08
S44	26546	third adj electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:08
S45	9	S43 and S44	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:08
S46	2452	(electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:40

S47	157	S42 same S46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:41
S48	1	(S36 S30 S34 S37 S38 S39) and S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:41
S49	14	S28 and S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:41
S50	143	S47 not (S49 S48)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:57
S51	157	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) same ((electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:57
S52	0	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) same ((electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4) same (split\$4) same combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:58
S53	33	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) same ((electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4) and (split\$4) andcombiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:58
S54	6	((("MZ interferometer" mach- zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) same ((electro-optic \$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) and (split\$4) and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 14:59

S55	6	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) same ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) same electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:01
S56	5	S55 not S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:01
S57	20	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) and split\$4 and combiner and electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:03
S58	15	S57 not (S54 S49)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:04
S59	0	S28 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:05
S60	139	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and electrode) and (transmit\$5 adj station)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:08
S61	23106	combiner and split\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:09
S62	8	S60 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:09

S63	5	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and electrode) and (transmit\$5 adj station) and ((electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/05 15:12
S64	18313	((359/245,315,247,251-252,254,108,237-238,278-279,290-292,298,300-302) or (385/1-3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:36
S65	20	split\$4 same combiner same electrode same ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat \$5 adj (branch arm path))) same bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S66	8	S64 and S65	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S67	2308	split\$4 same combiner same ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S68	2056	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S69	2742	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S70	1	(S67 and S68 and S69) not S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36

S71	4407	combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S72	2	(S68 and S69 and S71) not (S66 S70)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S73	1487017	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S74	12	S65 not (S72 S66 S70)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S75	6	((("5524076") or ("5778113") or ("5991471")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:36
S76	2	("5267073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:36
S77	683	Franz-Keldysh	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S78	451	S73 and S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S79	154	S64 and S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36

S80	1	S68 and S69 and S79	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S81	19	(S72 S66 S70 S74 S75 S76) and (phase adj shift\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S82	715	Franz-Keldysh (franz adj keldysh)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S83	3	S81 and S82	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S84	5009	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) near20 (silicon near5 substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S85	18313	((359/245,315,247,251- 252,254,108,237-238,278-279,290- 292,298,300-302) or (385/1- 3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:36
S86	20	split\$4 same combiner same electrode same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path))) same bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S87	8	S85 and S86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S88	2308	split\$4 same combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36

S89	2056	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S90	2742	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S91	1	(S88 and S89 and S90) not S87	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S92	4407	combiner same ("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave- guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S93	2	(S89 and S90 and S92) not (S87 S91)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S94	12	S86 not (S93 S87 S91)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S95	6	((("5524076") or ("5778113") or ("5991471")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:36
S96	2	("5267073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:36
S97	1	(S93 S87 S91 S94 S95 S96) and S84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36

S98	825	("CW" continuous-wave (continuous adj wave)) near20 electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S99	1487017	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat \$5 adj (branch arm path)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S100	142	S98 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S101	27752	third adj electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S102	9	S100 and S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S103	2507	(electro-optic\$3 (electro adj optic \$3) electrooptic\$3) adj convert\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S104	163	S99 same S103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S105	15	S85 and S104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S106	6	((("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) same ((electro-optic \$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) and (split\$4) and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36

S107	6	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) same ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) same electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S108	5	S107 not S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S109	22	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)) and split\$4 and combiner and electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S110	17	S109 not (S106 S105)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S111	5	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path))) and electrode) and (transmit\$5 adj station) and ((electro-optic\$3 (electro adj optic\$3) electrooptic\$3) adj convert\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S112	6	(S111 S66 S70 S72 S74 S80 S81 S83 S97 S102 S105 S108 S110) and ((@ad>="20101005") (@pd>="20101005"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:36
S113	736579	"group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:45

S114	1	S112 and S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:45
S115	2	("6744546").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/25 22:46
S116	0	S113 and S115	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:46
S117	2178	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path))) near20 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:47
S118	1819	("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide) (modulat \$5 adj (branch arm path))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:47

S119	1246	((("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:48
S120	5	S119 and S68 and S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:48
S121	3	(((((("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) same split\$4 same combiner) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:52
S122	67	(((((("MZ interferometer" mach-zender mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:53

		adj telluride))) and split\$4 and combiner) and electrode\$1 and (bias\$3 adj (signal voltage))				
S123	28	S64 and S122	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:53
S124	0	(((((modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) and split\$4 and combiner) and electrode\$1 and (bias\$3 adj (signal voltage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:55
S125	0	(((((modulat\$5 adj (branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) and split\$4 and combiner) and electrode\$1 and (bias\$3 adj (signal voltage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:55
S126	0	(((((modulat\$5 adj (branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) and split\$4 and combiner) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:56

S127	0	(((((modulat\$5 adj (branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)))) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:56
S128	1426	((((((branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)))) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:56
S129	20	((((((modulat\$5 ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide waveguide (wave adj guide)))) near5 (branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)))) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/25 22:58
S130	6514	(electro-optic\$3 (electro adj optic \$3) electrooptic\$3) near10 convert \$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:39
S131	33258	(electro-optic\$3 (electro adj optic \$3) electrooptic\$3) near10 (convert \$4 electric\$3 signal wavelength wave-length (wave adj length))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:40

S132	18313	((359/245,315,247,251-252,254,108,237-238,278-279,290-292,298,300-302) or (385/1-3,40,129-132,5,8-9)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/26 08:41
S133	2056	(first adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S134	2742	(second adj electrode) near10 bias	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S135	1246	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S136	5	S135 and S133 and S134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S137	3	(((((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) same split\$4 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41

		combiner) and electrode\$1				
S138	67	((("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide) (modulat\$5 adj (branch arm path)))) near5 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride))) and split\$4 and combiner) and electrode\$1 and (bias\$3 adj (signal voltage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S139	28	S132 and S138	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S140	20	(((((modulat\$5 ("MZ interferometer" mach-zehnder mach-zehnder (mach adj (zender zehnder)) "MZ" waveguide wave-guide (wave adj guide)))) near5 (branch arm path)))) near10 ("group IV semiconductor" (group-IV-semiconductor) (group adj IV adj semiconductor) ((carbon silicon germanium tin lead ununquadium) near5 semiconductor) (silicon adj (carbide germanium)) diamond (lead adj (selenide sulfide telluride)) (tin adj (sulfide telluride)) (lead adj tin adj telluride) (thallium adj tin adj telluride) (thallium adj germanium adj telluride)))) and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41
S141	6	S131 and (S140 S139 S137 S136)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/26 08:41

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